

1   **WHAT IS CLAIMED IS:**

2           A reflective optical apparatus for a free-space optical communication  
3   system and the reflective optical apparatus comprising:  
4           a housing having a front opening;  
5           a reflective member mounted in the housing and having a concave  
6   reflective surface with a focal point and the concave reflective surface facing the  
7   front opening of the housing;  
8           an optical transceiver mounted at the focal point of the concave  
9   reflective surface; and  
10          a protective window mounted in the housing between the transceiver and  
11   the front opening of the housing.